

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Tomoyuki MAEDA, et al.

SERIAL NO: New Application

GAU:

FILED: Herewith

EXAMINER:

FOR: PERPENDICULAR MAGNETIC RECORDING MEDIUM

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

**REFERENCES**

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**RELATED CASES**

- Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**CERTIFICATION**

- Each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

**DEPOSIT ACCOUNT**

- Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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**LIST OF RELATED CASES**

<u>Docket Number</u>	<u>Serial or Patent Number</u>	<u>Filing or Issue Date</u>	<u>Inventor/Applicant</u>
218347US0SRD	10/050,118	01/18/02	Maeda, et al.

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**STATEMENT OF RELEVANCY**

**Reference AA (6,428,906) of Form PTO-1449:**

An under layer that contains CrTi ordered phase alloy is provided. But this underlayer is not used for L10 ordered phase magnetic layers.

**Reference AO (2002-42331) of Form PTO-1449:**

An under layer that contains crystal grain and grain boundary is disclosed. But this is a self-organized structure with different materials.

**Reference AP (2002-251720) of Form PTO-1449:**

An island under layer consist of the Pt for the ordered alloy magnetic layer is disclosed. But no thin film underlayer is provided.

**Reference AQ (11-353648) of Form PTO-1449:**

This discloses an underlayer which has a lattice constant that is close to those of LiO ordered alloy.

**Reference AR (2001-189010) of Form PTO-1449:**

This discloses an underlayer which has a lattice constant that is close to that of LiO ordered alloy.

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 246032US0SRD		SERIAL NO. New Application	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Tomoyuki MAEDA, et al.			
				FILING DATE Herewith		GROUP	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	6,428,906	08/06/02	Bunsen Y. WONG, et al.			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
	AO	2002-42331	02/08/02	Japan	YES		X
	AP	2002-251720	09/06/02	Japan			X
	AQ	11-353648	12/24/99	Japan			X
	AR	2001-189010	07/10/01	Japan			X
	AS						
	AT						
	AU						
	AV						
<b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
	AW	Toshio SUZUKI, et al., "SPUTTER-DEPOSITED (Fe-Pt)-MgO COMPOSITE FILMS FOR PERPENDICULAR RECORDING MEDIA", IEEE Transactions on Magnetics, Vol., 37, No. 4, July 2001, pgs. 1283 - 1285.					
	AX						
	AY						
	AZ				<input type="checkbox"/> Additional References sheet(s) attached		
Examiner					Date Considered		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							